

## Connection cable

### V1-G-YE30M-PUR-U-V1-G

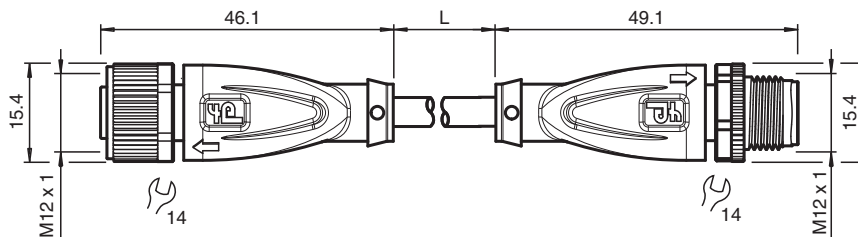


- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PUR cable yellow, UL approved, drag chain suitable, torsion resistant



## Dimensions



## Technical Data

### General specifications

|                   |                  |
|-------------------|------------------|
| Connector 1       |                  |
| Connection        | socket           |
| Construction type | M12              |
| Style             | straight         |
| Locking           | screw connection |
| Number of pins    | 4                |
| Coding            | A-coded          |
| Connector 2       |                  |
| Connection        | plug             |
| Construction type | M12              |
| Style             | straight         |
| Locking           | screw connection |
| Number of pins    | 4                |
| Coding            | A-coded          |

### Electrical specifications

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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## Technical Data

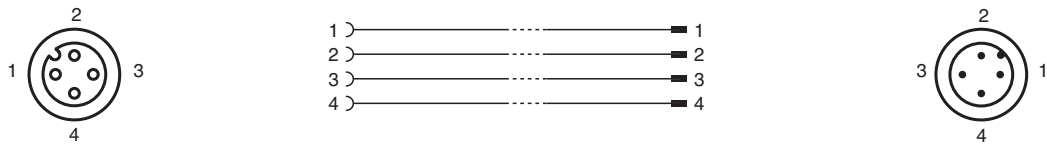
|                                   |                |                                                                 |
|-----------------------------------|----------------|-----------------------------------------------------------------|
| Operating voltage                 | U <sub>B</sub> | max. 250 V AC/DC                                                |
| Operating current                 | I <sub>B</sub> | max. 4 A                                                        |
| <b>Conformity</b>                 |                |                                                                 |
| Degree of protection              |                | EN 60529                                                        |
| Plug connection                   |                | connector M12 x 1 : IEC 61076-2-101                             |
| Flammability                      |                | UL 1581; DIN EN 60332-2-2                                       |
| Halogen-free                      |                | DIN VDE 0472-815<br>IEC 60754-1                                 |
| Microbial resistance              |                | DIN EN 50525-2-21 / DIN VDE 0282-10                             |
| Hydrolysis resistance             |                | DIN EN 50525-2-21                                               |
| <b>Approvals and certificates</b> |                |                                                                 |
| UL approval                       |                | AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2 (cable)              |
| UL File Number                    |                | E231213                                                         |
| <b>Ambient conditions</b>         |                |                                                                 |
| Ambient temperature               |                |                                                                 |
| Plug connector                    |                | -40 ... 90 °C (-40 ... 194 °F)                                  |
| Cable, fixed                      |                | -40 ... 80 °C (-40 ... 176 °F)                                  |
| Cable, flexing                    |                | -20 ... 80 °C (-4 ... 176 °F)                                   |
| Pollution degree                  |                | 3                                                               |
| <b>Mechanical specifications</b>  |                |                                                                 |
| Plug connector                    |                |                                                                 |
| Tightening torque                 |                | 0.6 Nm                                                          |
| Loosening protection              |                | available                                                       |
| Tool installation                 |                | straight knurling and hexagon nut SW = 14 mm                    |
| Mating cycles                     |                | min. 100                                                        |
| Degree of protection              |                | IP68 / IP69                                                     |
| Cable                             |                | according to IEC/EN 60228 (DIN VDE 0295) class 6                |
| Sheath diameter                   |                | 4.3 mm                                                          |
| Bending radius                    |                | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed    |
| Sheath stripping force            |                | max. 50 N / 300 mm                                              |
| Sheath color                      |                | yellow (similar to RAL 1021)                                    |
| Number of cores                   |                | 4                                                               |
| Core cross section                |                | 0.34 mm <sup>2</sup>                                            |
| Cores color                       |                | Core 1: brown<br>Core 2: white<br>Core 3: blue<br>Core 4: black |
| Core construction                 |                | 42 x 0.1 mm Ø                                                   |
| Length                            | L              | 30 m                                                            |
| Cable code                        |                | Li F 9Y 11Y 4 x 0,34                                            |
| Drag chain suitability            |                |                                                                 |
| Drag chain cycles                 |                | min. 5000000                                                    |
| Motion velocity                   |                | max. 3.3 m/s                                                    |
| Traverse distance                 |                | max. 5 m                                                        |
| Acceleration                      |                | max. 5 m/s <sup>2</sup>                                         |
| Torsion cycles                    |                | min. 1000000                                                    |
| Torsional stress                  |                | ± 180 °/m                                                       |
| <b>Material</b>                   |                |                                                                 |
| PWIS free                         |                | yes                                                             |
| Halogen-free                      |                | yes                                                             |
| Plug connector                    |                |                                                                 |
| Screw connection                  |                | Zinc diecast, nickel-plated                                     |
| Body                              |                | TPU, black                                                      |
| Seal                              |                | FKM                                                             |

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Technical Data

|                              |                        |
|------------------------------|------------------------|
| Contact surface              | Au                     |
| Flammability                 | V-2                    |
| Cable                        |                        |
| Sheathing                    | PUR based on polyether |
| Core insulation              | PP                     |
| Chemical resistance          | good                   |
| Oil resistance               | yes                    |
| Cooling lubricant resistance | yes                    |
| Microbial resistance         | yes                    |
| Hydrolysis resistance        | yes                    |
| Flammability                 | FT2                    |

Connection Assignment



Accessories

|                                                                                     |                              |                                                  |
|-------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|
|  | <b>MH V1-SCREWDRIVER</b>     | torque screwdriver (0.6 Nm)                      |
|  | <b>MH V1-BIT M12</b>         | plug-in cap M12                                  |
|  | <b>V1/V3-LABELHOLDER</b>     | Label holder                                     |
|  | <b>V1/V3-LABEL</b>           | Label plate                                      |
|  | <b>MH V1-Holder</b>          | Modular universal holder for M12 connectors      |
|  | <b>V1-CLIP</b>               | Unlocking protector for M12 connector            |
|  | <b>V1-MARKING-RING-COLOR</b> | Marking rings for M12 connectors, various colors |

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